Wednesday, April 20, 2011 9:27:52 AM



Page 1

Item ID: D3391-025 Accept Setup Start Revision ID: Stop Item Name: Aft Tube Assembly **Start Date:** 4/20/2011 Start Qty: 1.00 **Cust Item ID:** Required Date: 5/12/2011 Req'd Qty: 1.00 Customer: Reference: Approvals: Date: 1-04-20 Tooling: **Process Plan:** Date: SPC (Y/N): Sequence ID/ **Operation** Set Up/ Tool ID Tool # Plan Accept Reject Reject Insp. Work Center ID Description **Run Hours** Code Qty Qty Number Stamp **Draw Nbr Revision Nbr** D3391 Rev H/ DEO 0.00; MORI SEIKI CNC LATHE LARGE Turn as per Folio FA599 Rev. & Dwg D3391 Rev: 1 Mori Seiki CNC Lathe Large ***scribe batch # on fwd end at 90 degree*** 110 QC2- Inspect parts off machine FAI/FAIB 0.00 Memo Quality Control 111 QC8- Inspect parts - second check 0.00 M.A 11/04/30 0.00 Memo Quality Control

Work Order ID 68712 Wednesday, April 20, 2011 9:27:52 AM Item ID: D3391-025 Accept **Revision ID: Item Name:** Aft Tube Assembly **Start Date:** 4/20/2011 Start Qty: 1.00 **Cust Item ID:** Required Date: 5/12/2011 Req'd Qty: 1.00 **Customer:** Reference: Process Plan: Date: **Tooling:** Approvals: Date: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID **Work Center ID** Description **Run Hours** 120 0.00 HAAS CNC VERTICAL MACHINING #1 RQ 11.5.4 HAAS 1 0.00 1-Machine as per Folio FA 599 Rev: A & Dwg D3391 Rev: HAAS CNC vertical machine #1 2-Deburr

Stop Tool # Plan Reject Reject Accept Insp. Qty Qty Stamp Code Number

Run

Setup Start

Stop

Start

QC2- Inspect parts off machine FAI/FAIB

0.00

R9 11.5.4

Memo

0.00

Quality Control

140

130

QC

QC8- Inspect parts - second check

Memo

0.00

B.A 11/05/0C

0.00

Quality Control

Dart I	Aerosi	pace l	Ltd
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W/O:				٧	VORK ORDER CHANGES	}				**************************************
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	R	esolution:							Date: _	
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DATE	STEP	Description of NC	Init	ial	Corrective Action Section B Action Description	3 Sign	Verifica		Approval	Approval
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Wednesday, April 20, 2011 9:27:52 AM



Page 3

Item ID:

D3391-025

Accept

Setup Start

Stop

Stop



Revision ID:

Item Name:

Aft Tube Assembly

Start Date:

4/20/2011

Start Oty: 1.00

Required Date: 5/12/2011

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan: _____ Date: Tooling:

Set Up/

Run Hours

Date:

Date:

Run Start

Sequence ID/

Work Center ID

Date:

SPC (Y/N):

Tool ID

Tool # Plan Code

Accept Qty Qty

Reject Reject Number

Insp. Stamp

150

Skidtubes

Skidtubes

Operation

Description

Memo

0.00

0.00

Skidtubes

1-Drill (PILOT HOLE) aft cap holes per Dwg D3391 using DT8803



160

CNC Bend 1

CNC Delta 100 Bender

BENDING MACHINE - SKIDTUBES

Memo

0.00

0.00

Form as per Dwg D3391 Using Bend Prog 3391025

170

QC

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

Memo

0.00

\$ 11.05.06

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Wednesday, April 20, 2011 9:27:53 AM



Page 4

Revision ID
Item Name:

Item ID: D3391-025

Accept



Setup Start



ID:

Aft Tube Assembly

Start Date:

4/20/2011 . Start Oty: 1.00

Required Date: 5/12/2011 Req'd Qty: 1.00



Cust Item ID:

Customer:

Tool ID

Reference:

Ap	prova	ls:

Process Plan:

Date:____

Date:

Tooling: SPC (Y/N): Date: Date:

Tool # Plan

Code

Start Run

Reject

Qty

Accept

Qty



Stop

Stop



Number

Stamp

Sequence ID/ 3 Work Center ID

Skidtubes

Skidtubes

Operation **Description**

Skidtubes

Set Up/ **Run Hours**

Memo

0.00

1-Open Aft cap pilot hole to .208 as per Dwg D3391

2-Drill float bag holes using DT8809 as per Dwg D3391(Holes marked "A" Only.

3-Drill wearplate holes as per Dwg D3391 using DT8878(Mid Tube) & DT8217 Wearplate Jig.

*****Do Not Open To Finished Size****

4-Drill Wearshoe holes as per DWG D3391 using DT8939 locating from 2 previously drilled aft wearplate holes.

5-Open wearplate holes to 0.250" and c'bore as per dwg D3391

6-Open up all wearshoe, wearplate to 0.297" and float bag holes to 0.328" as per Dwg D3391.

7-Deburr

Dart A	\erosp	pace	Ltd
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W/O:			\	WORK ORDER CHA	NGES				-
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Wednesday, April 20, 2011 9:27:53 AM



Page 5

Item ID:

D3391-025

Accept

Setup Start

Stop



Revision ID:

Item Name: **Start Date:**

Aft Tube Assembly

4/20/2011

Start Qty: 1.00 Req'd Qty: 1.00

Cust Item ID:

Customer:

Reference:

Approvals:

Required Date: 5/12/2011

Process Plan:

Date: _____

Tooling:

Date:

Date:_

Start Stop



QC:

Date:____

SPC (Y/N):

Set Up/

Reject

Run

Reject Insp.

Work Center ID

190

Sequence ID/

QC

Quality Control

Operation Description

QC5- Inspect part completeness to step on W/O

Run Hours

8 Idusti3

Tool ID

Tool # Plan Code

Accept Qty

Qty

Number Stamp

200

HandFinish Hand Finishing

Memo

Chemical Conversion Coat per QSI005 4.1

Memo

0.00

0.00

1 6 BE11/05/10

210

Quality Control

QC3- Inspect Part Finish

Memo

0.00

0.00

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W/O:				W	ORK ORDER CHA	NGES					
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Wednesday, April 20, 2011 9:27:53 AM



Page 6

Item ID:

D3391-025

Accept

Accept

Qty

Setup Start

Stop



Revision ID:

Item Name:

Aft Tube Assembly

Start Date:

Required Date: 5/12/2011

4/20/2011

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Tool ID

Reference:

Approvals:

Process Plan:

Date: _____

Date: ____

Tooling:

SPC (Y/N):

Set Up/

Run Hours

Date:

Date:

Tool # Plan

Code

Start

Reject

Qty

Run



Stop

Number Stamp

Insp.

Reject

Sequence ID/ Work Center ID

220

Skidtubes

Skidtubes

Description

Operation

Skidtubes

Memo

Instal spacers as per dwg D3391

A/R Magnabond 6398 Batch: //6676

exp. date 34 5777 361

cure time 12hrs as per QSI0015

0.00

0.00

QC5- Inspect part completeness to step on W/O

Memo

D 1165/19

Quality Control

235

230

HandFinish Hand Finishing Pressure Wash per QSI005 4.3

0.00

Memo

0.00

AND REALODINE AS PER PAR09-043

15

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W/O:				V	ORK ORDER CHANGI	=5					
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Wednesday, April 20, 2011 9:27:53 AM



Page 7

Item ID: **Revision ID:** D3391-025

Accept



Setup Start

Stop



Aft Tube Assembly

Item Name: **Start Date:**

Required Date: 5/12/2011

4/20/2011

Start Qty: 1.00

Req'd Qty: 1.00

Cust Item ID:

Customer:

Tool ID

Reference:

Approvals:

Process Plan:

Date:

Tooling: SPC (Y/N): Date:

Date:

Tool # Plan

Code

Start



Stop

Reject

Qty

Sequence ID/ **Work Center ID**

240

Powdercoat

Powder Coating

Operation Description

QC:

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

m 116 96ct.

OVEN TEMPERATURE

Set Up/ **Run Hours**

0.00

0.00

Date:

Run

Accept

Qty

Insp.

Stamp

1 BK 11-5-19

Reject

Number

250

QC

Quality Control

QC3- Inspect Part Finish

Memo

0.00

0.00

260

HandFinish

Hand Finishing

HandFinishing

Memo

✓1-Install inserts as per Dwg D3391

2-Install Aft Cap as per Dwg D3391 A/R Sikaflex-241/-291 //11/6945 Sikaflex expiry date: 12/01

0.00

0.00

1 6 H 4/05/24

W/O:				WORK ORDE	R CHANGES				·	· · · · · · · · · · · · · · · · · · ·
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Wednesday, April 20, 2011 9:27:53 AM



Page 8

Item ID:

D3391-025

Accept

Setup Start

Stop



Revision ID:

Item Name:

Aft Tube Assembly

Start Date:

4/20/2011

Start Qty: 1.00

Required Date: 5/12/2011 Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date: _____

Tooling:

Date:

Date:

Run Start

Stop



Sequence ID/

Date:

SPC (Y/N):

Tool ID

Tool # Plan

Code

Accept Qty

Reject Qty

Reject Insp. Number Stamp

Work Center ID

270

OC

Quality Control

Operation **Description**

QC5- Inspect part completeness to step on W/O

Memo

Set Up/ **Run Hours**

280

Packaging

Packaging

Memo

Memo

Identify as per dwg & Stock Location:

0.00

0.00 D412-742-043 / 3686 45

290

OC

Quality Control

QC21- Final Inspection - Work Order Release

0.00

0.00

W/O:				W	ORK ORDER CHANGE	ES					· · · · · •
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NOTE: Date & initial all entries

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Picklist Print

Wednesday, April 20, 2011 9:27:47 AM

Work Order ID: 68712

D3391-025 Parent Item:

Parent Item Name: Aft Tube Assembly



Start Date: 4/20/2011

Start Qty: 1.00

Required Date: 5/12/2011

Required Qty: 1.00

Comments:

IPP Rev B 06-02-07

IPP Rev:C 06-03-28

ECN773 dwg rev. D EC Update Manuf. Instructions JLM 🗆 🗆 🗆

revF dwg EC

07.03.20 IPP rev D IPP rev E

07.11.07 07-11-13 ECN 1056

rev G dwg ecn 1053p EC verified by: DD DD verified by: EC

IPP Rev:F IPP Rev:G 08-09-10 revH as per dwg DD verified by:EC

Manufactured No 100 Each 14.0000 1 1 1 1 1 1 1 1 1	Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
ALUMINUM EXTRUSION - Location Loc Oty Loc Code LG 14 56572 14 D3670-4-200 Manufactured No 230 Each 100.0000 4 4 SPACER - Location Loc Oty Loc Code LG 100 67777 39 68107 61 D2646 Manufactured No 270 Each 56.0000 1 1 Aft Cap Location Loc Oty Loc Code Location Loc Oty Loc Code LG 100 67777 39 68107 61 D2646 Manufactured No 270 Each 56.0000 1 1 Aft Cap		1/16 16/2/ 88 // 188/	Manufactured	No			100	Each	14.0000	1	1			
D3670-4-200 Manufactured No 230 Each 100.0000 4 4 SPACER LG 100 Loc Oty Loc Code LG 100 67777 39 68107 61 D2646 Manufactured No 270 Each 56.0000 1 1 Aft Cap Location Loc Oty Loc Code		aiia (Bili Baii iani J		,	•						120	. !!	: 4.	29
D3670-4-200 Manufactured No 230 Each 100.0000 4 4			-		Location		Loc	<u>Qty</u>	Loc Code					
D3670-4-200 Manufactured No 230 Each 100.0000 4 4					LG	56572				· _	0	-		
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D2646 Manufactured No 270 Each 56.0000 1 1 Aft Cap Location Loc Oty Loc Code					_		Loc		Loc Code				, ,	
Aft Cap Location Loc Oty Loc Code											4	- - · ·		
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FP006 56					FP006	(2/70		56		_	(4)	-	•	

Page 1

Wednesday, April 20, 2011 9:27:48 AM

Work Order ID: 68712 D3391-025 Parent Item: Parent Item Name: Aft Tube Assembly Start Date: 4/20/2011 Required Date: 5/12/2011 Start Qty: 1.00 Required Qty: 1.00 D3537-1 Manufactured No 270 54.0000 Each Wearpad Location Loc Qty Loc Code FP017 366804 54 63313 2 66935 52 D3537-7 Manufactured No 270 Each 12.0000 Wearpad Location Loc Qty Loc Code FP017 12 . 56831 5 651<u>46</u> 7 D3553-1 Manufactured 270 No Each 24.0000 Gasket Location Loc Qty Loc Code FP013 24 56568 24 D3553-3 Manufactured 270 No Each 48.0000 Gasket Location Loc Qty Loc Code FP 20 31631 20 FP013 28 53480 28

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Wednesday, April 20, 2011 9:27:48 AM

Work Order ID: 68712						W			·
Parent Item: D3391-025 Parent Item Name: Aft Tube As.	cambly								·
a a cut tem Name: All Tube As	semory						Start Date: 4 Start Qty: 1		Required Date: 5/12/2011 Required Qty: 1.00
D3672-1 Phenolic Washer	Manufactured	No			270	Each	1,387.000 2	2 	11/05/21
			Location	<u>n</u>	<u>Lo</u>	c Oty	Loc Code		
			FP-A			37			
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				64177		850			
				66821		500			
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AN3C4A	Purchased	No			270	Each	2,358.000 6	6	·
								H	11/05/24
			Locatio	<u>n</u>	<u>La</u>	e Qty	Loc Code		
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Wednesday, April 20, 2011 9:27:48 AM

Work Order ID: 68712

Parent Item:

D3391-025

Parent Item Name: Aft Tube Assembly



Start Date: 4/20/2011

Required Date: 5/12/2011

Start Qty: 1.00

Required Qty: 1.00

AN3C5A

Bolt

Purchased

Each

270

1,043.000



Location		<u>I</u>	oc Qty	Loc Code		
FP-A			7		_	
1	15835		7			
ST350			1036		_	
1	15422		52			
1	16419		384			
i	16549		100			Χ·J
l	17343		500			
		270	Each	0.0000	10	10

AN960C10L

NAS1149C0332

Purchased

No

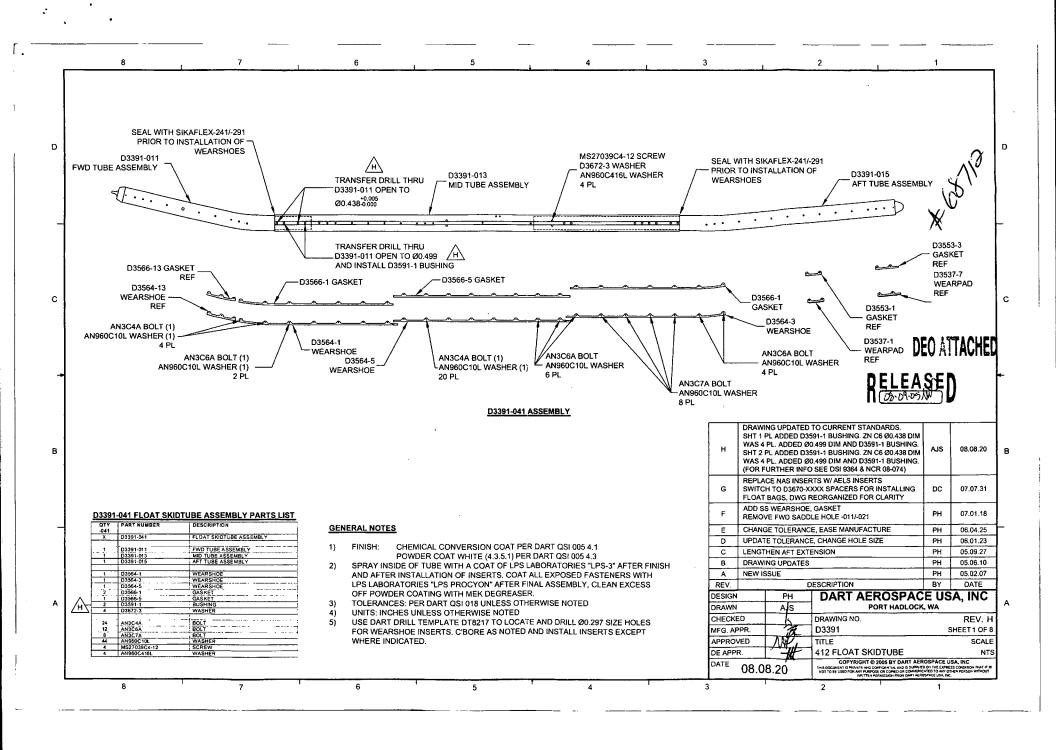
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11/05/26

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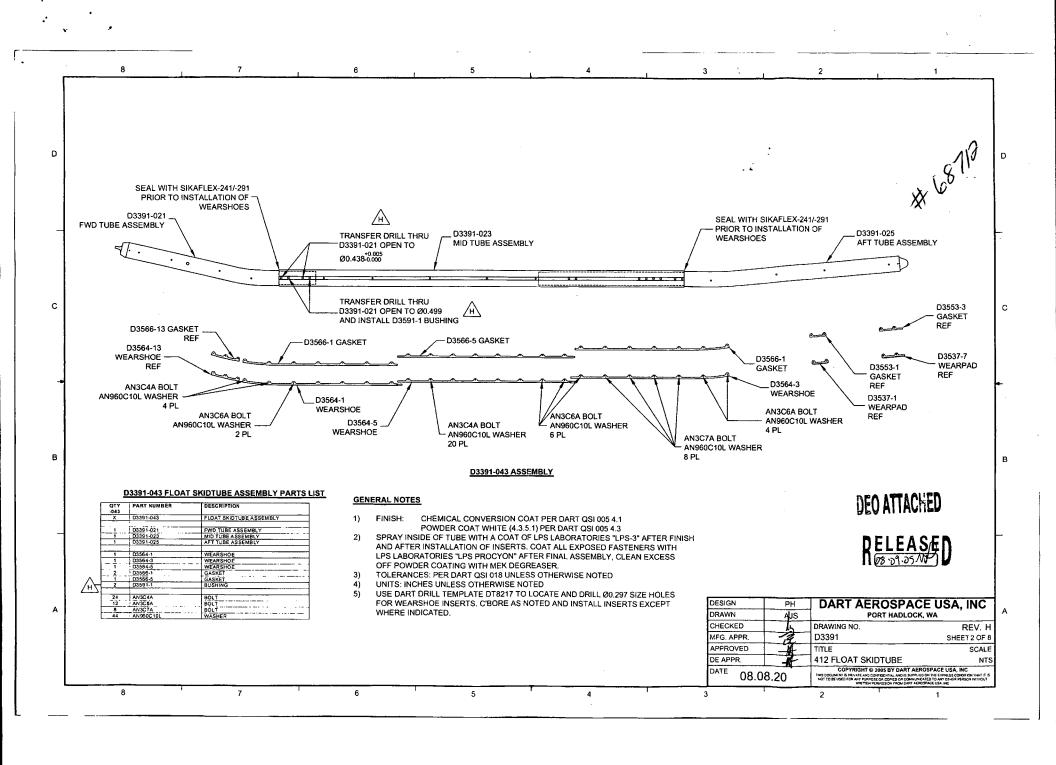


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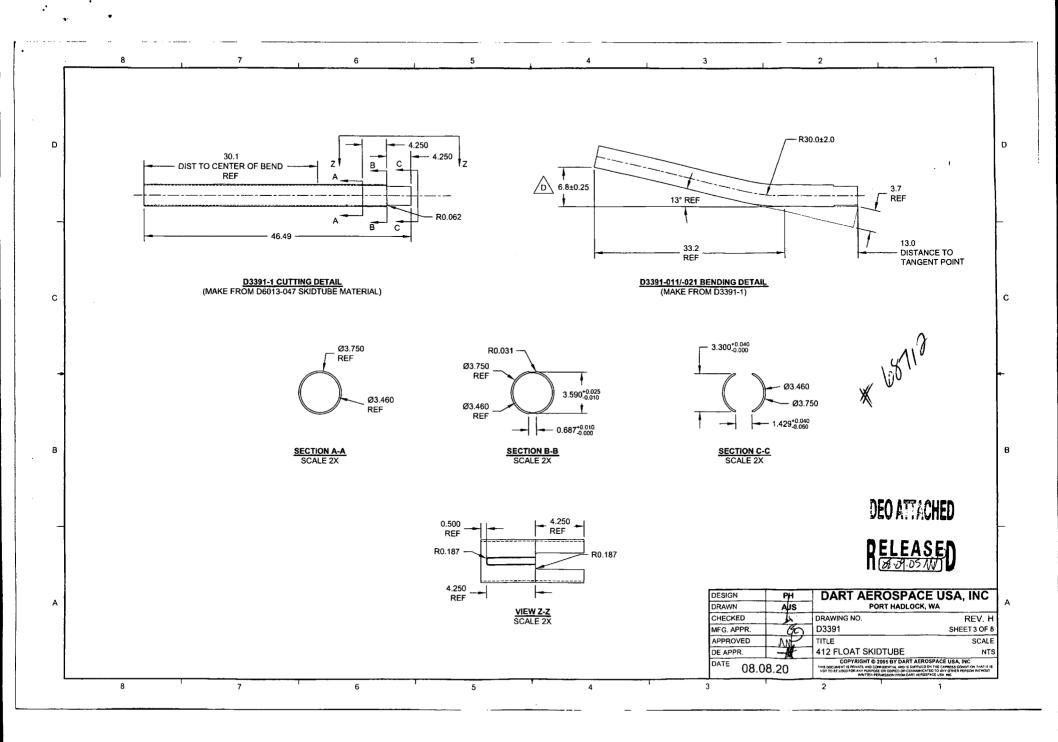
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DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Section Action Description Chief Eng	on B Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspector					

NOTE: Date & initial all entries

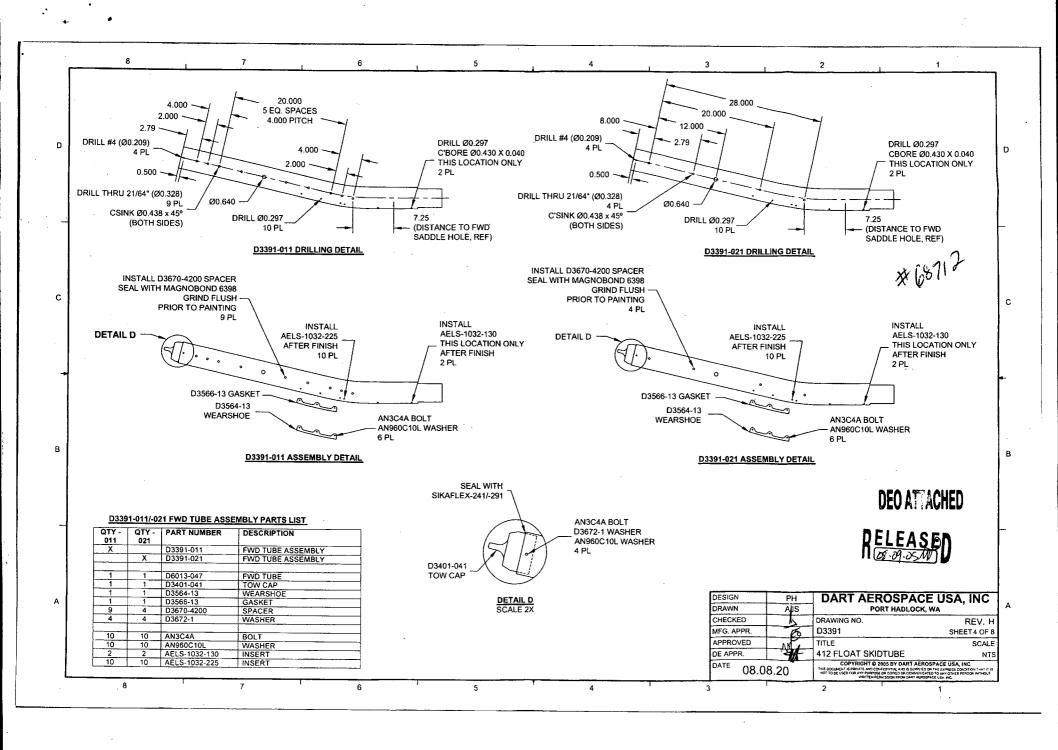
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W/O:				WORK ORDER	R CHANGES				
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DATE	STEP	Description of NC	Initia	Corrective Ac	tion Section B Description	Sign &	Verification		Approval
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W/O:				WORK ORDER	R CHANGES				
DATE	STEP	PRO	CEDURE	CHANGE By			Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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DATE	STEP	Description of NC	Initia	Corrective Ac	tion Section B Description	Sign &	Verification		Approval
		Section A	Chief E	ng Chi	ef Eng	Date	Section C	Chief Eng	QC Inspector
7.1									

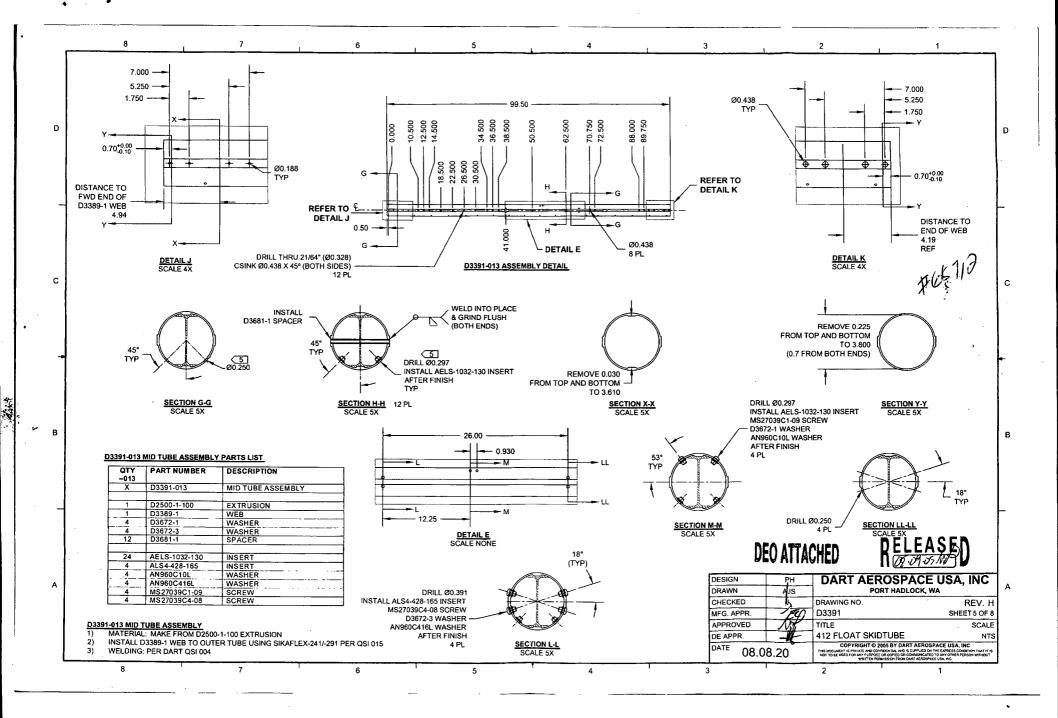


W/O:				WORK ORDER (CHANGES				
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Part No	•	PAR #:	Fault	Category:	NCR:	Yes N	o DQA:	Date:	
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DATE	STEP	Description of NC Section A	Initia Chief E	Corrective Actio Action Des	cription	Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspector
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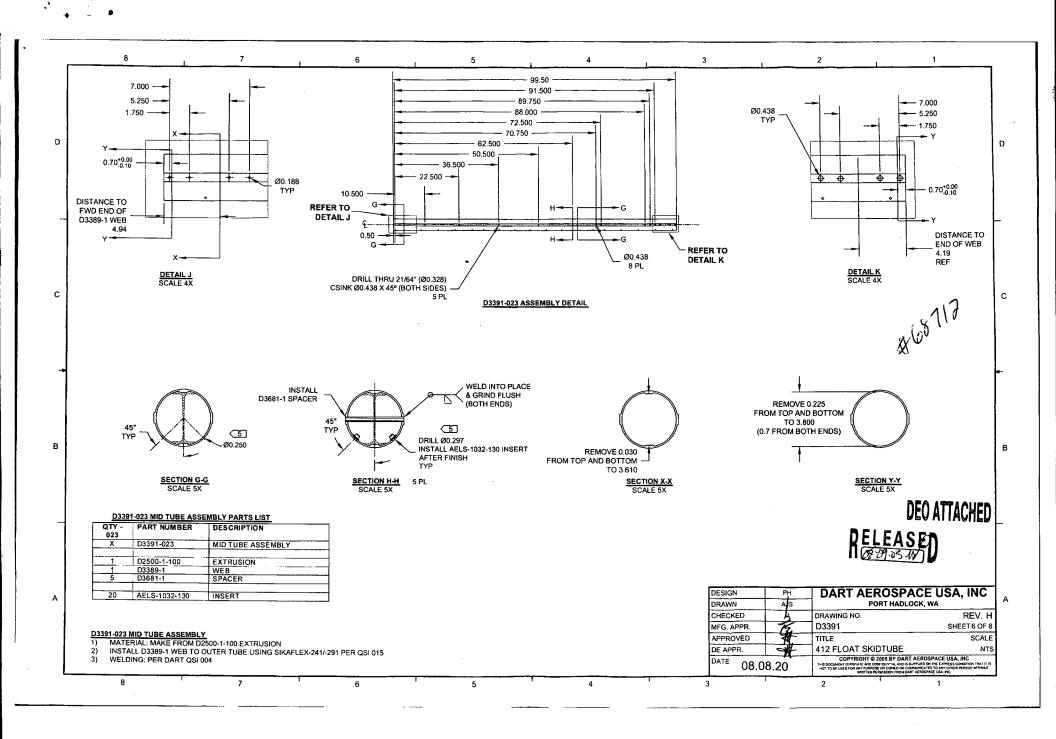
NOTE: Date & initial all entries

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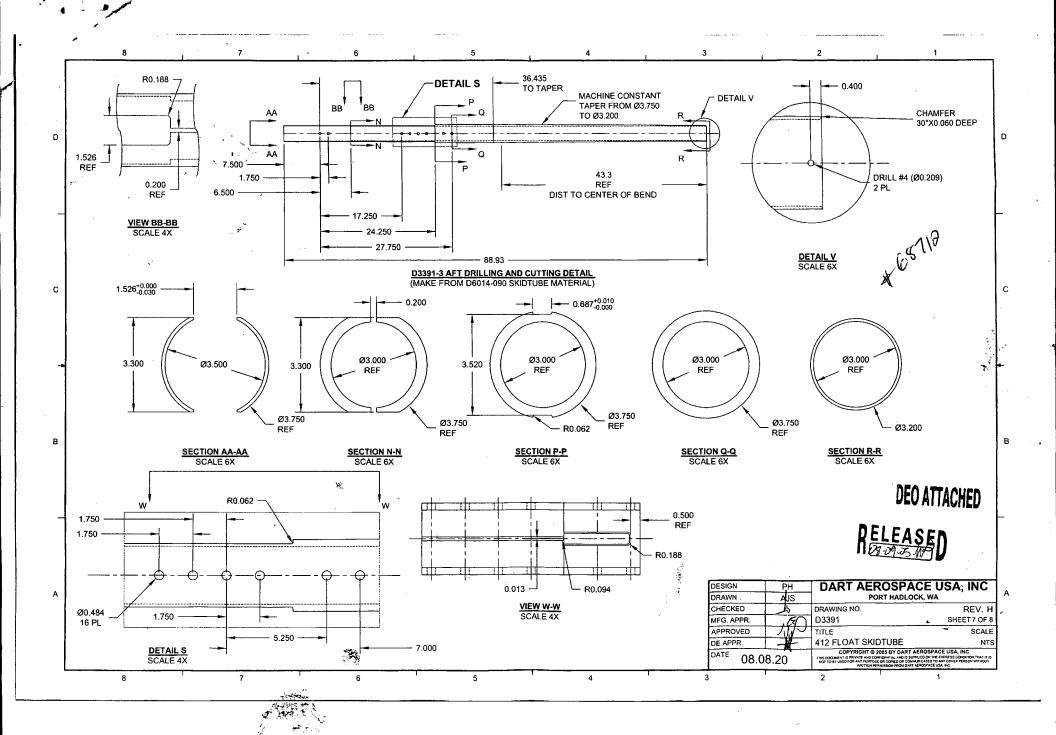
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		Section A	Chief E		Chief Eng		Date	Secti	on C	Chief Eng	QC Inspector
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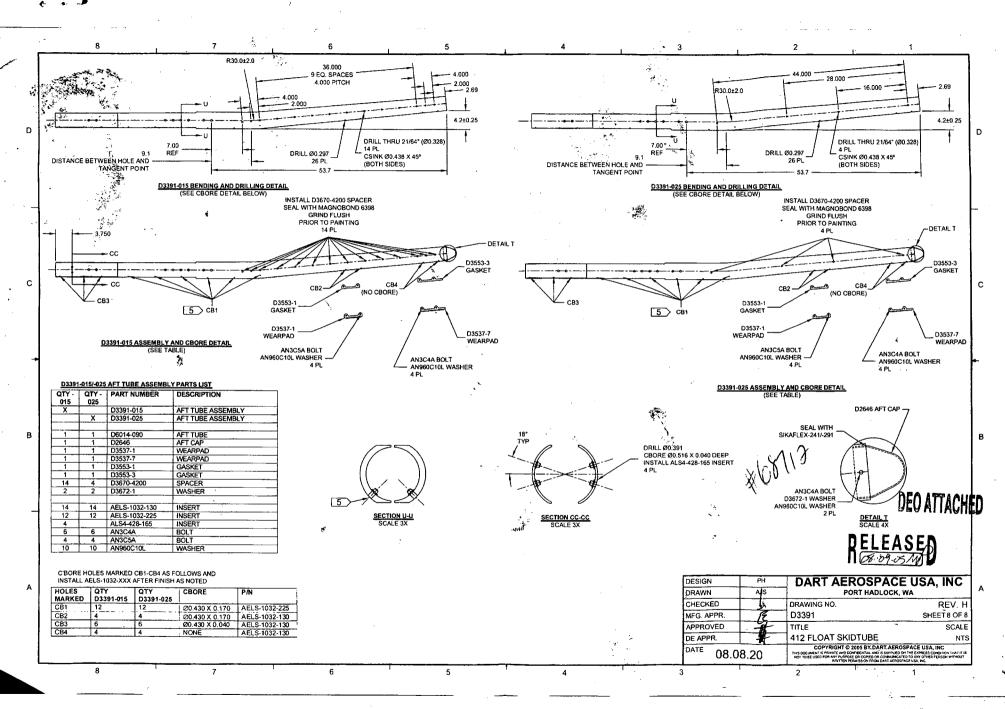
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DATE	STEP	Description of NC Section A	Initia Chief E		Corrective Action Section Description Chief Eng		Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspector
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W/O:				WORK ORDER CHANG	ES			
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Part No	:	PAR #:	Fault	Category:	_ NCR: Yes 1	No DQA:	_ Date: _	
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DRAWING	NO. TITLE		REV. H	DART AEROSPACE U	JSA, INC D.E.O. NO.	SHEET NO.	SCALE
D3391	412 FLC	DAT SKIDTUB	Ξ,	ENGINEERING OF	RDER D3391-H-1	SHEET 1 OF, 1	NTS
DRAWN	P	CHECKED	ly .	MFG. APPR.	APPROVED NW	DE APPR.	
DATE	09.09.23	DATE	04.04.24	DATE 09/09/25	DATE 09/09/30	DATE 09/09/3	>

PURPOSE:

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF D3391-041/-043 SKIDTUBES.

CHANGE:

AMEND NOTE 2 OF D3391-041/-043 SKIDTUBE ASSEMBLIES (ZN A6-1, A6-2) AS FOLLOWS:

2) SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH—AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.

PELEASED 2010 -02- 0 2

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W/O:			WORK ORDER CHANGES	<u>.</u>				
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Part No:	4	PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
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		; .	Description of NC		Corréctive Action Section B	Verification Appr	roval Approval
	DATE	STEP	Section A	Initial Chief Eng	Action Description Sign & Date		roval Approval f Eng QC Inspector
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2.5	***						
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n.	James Car			: ድ			

ADT AEDO	SPACE LTD				Work Ore	der:	68-C1	79
					Part Num	ber:	D33	91-3
escription: Fl	oat Skidtube (412)				1 411 1441.			
spection Dwg	1: D3391 Rev	: H					Page	1 of 1
		T ARTICLE IN	ISPECTI	ON CHE	CKLIST			
	Tx			~~	otype			
Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method o	- 1	Comm	ients
Dimension			he Section	1				<u></u>
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	. +/-0.010	7 497			120.02	2		
3.500	+/-0.030	88.937			20.1	4		
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44.995	+/-0.010	3,205			120,0	2	1	
Ø3.200 88.93	+/-0.030	88.937			20.	14		
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Ø3.750 30° x 160"		2.00		•				
chamfer	+/-0.010	26 × . 06			120.0			
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3.300	+/-0.010	1.198	1		120,0		v	
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3.520	+0.010/-0.000	1690	+	+		32		
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R0.062		. 486	+	+	11			
Ø0.484	+0.005/-0.001					ate:	l(· \$. 5
Me	asured by						11/05/0	
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Rev Date	Change		51,000				evised by	Approve
A 06.04.2	24 New Issue	P/O D3391-01	5/-025			K	I/JLM	
B 06.06.1 C 07.04.2		sion removed					I/JLM	
D 07.09.0	06 0.400 dimension	on removed					I/JLM I/EC/DD	
E 07.11.2		ated		00 029			1/31 M	

Dwg Rev. updated
Dimensions updated per Rev H and NCR09-028

Dimension 0.200 removed

KJ/JLM

D

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07.11.23 09.04.27 09.11.16

